FIG.1

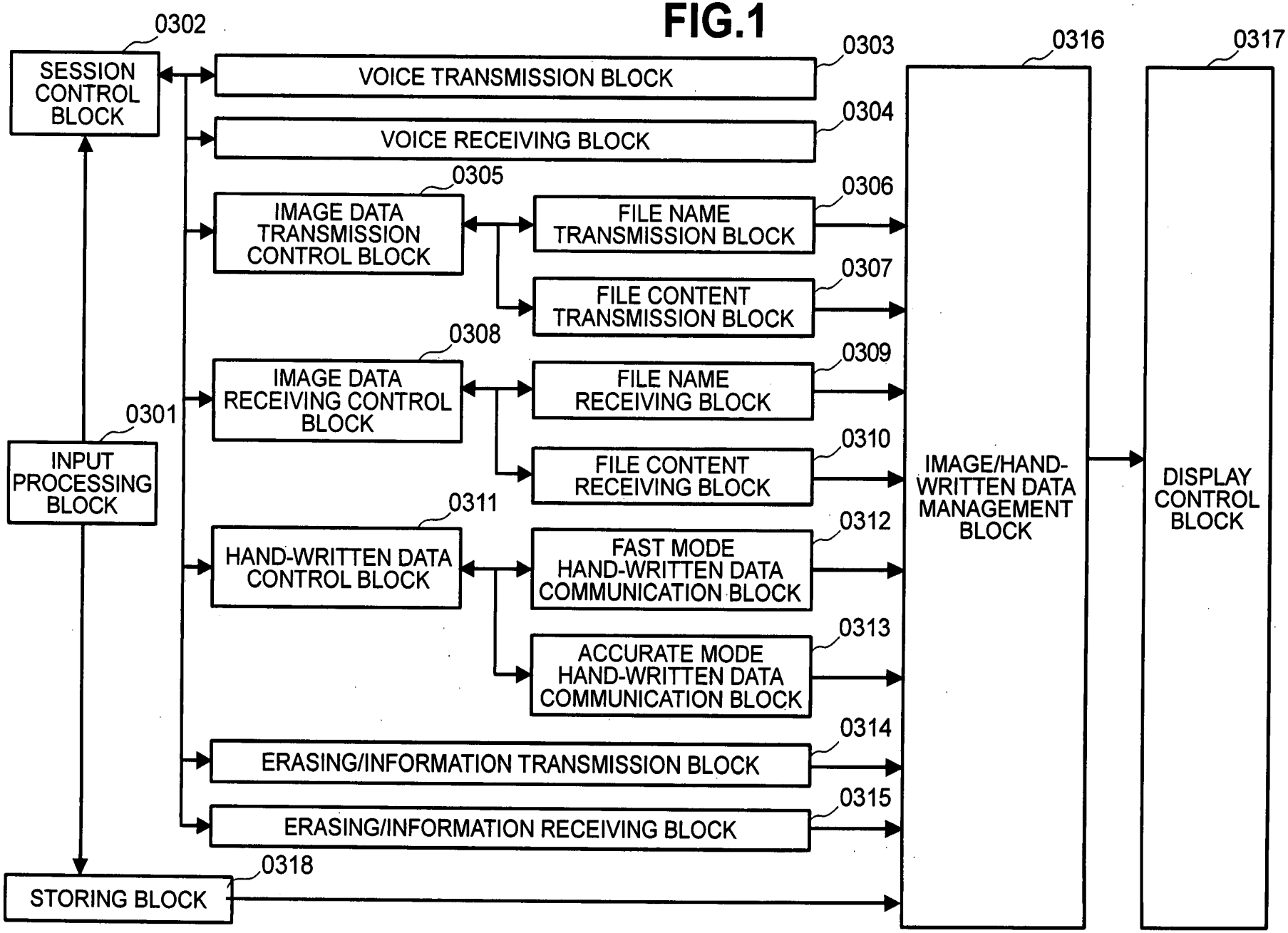

0302
SESSION CONTROL BLOCK
0303
VOICE TRANSMISSION BLOCK
0304
VOICE RECEIVING BLOCK
0305
IMAGE DATA TRANSMISSION CONTROL BLOCK
0306
FILE NAME TRANSMISSION BLOCK
0307
FILE CONTENT TRANSMISSION BLOCK
0308
IMAGE DATA RECEIVING CONTROL BLOCK
0309
FILE NAME RECEIVING BLOCK
0310
FILE CONTENT RECEIVING BLOCK
0301
INPUT PROCESSING BLOCK
0311
HAND-WRITTEN DATA CONTROL BLOCK
0312
FAST MODE HAND-WRITTEN DATA COMMUNICATION BLOCK
0313
ACCURATE MODE HAND-WRITTEN DATA COMMUNICATION BLOCK
0314
ERASING/INFORMATION TRANSMISSION BLOCK
0315
ERASING/INFORMATION RECEIVING BLOCK
0318
STORING BLOCK
0316
IMAGE/HAND-WRITTEN DATA MANAGEMENT BLOCK
0317
DISPLAY CONTROL BLOCK

FIG.2

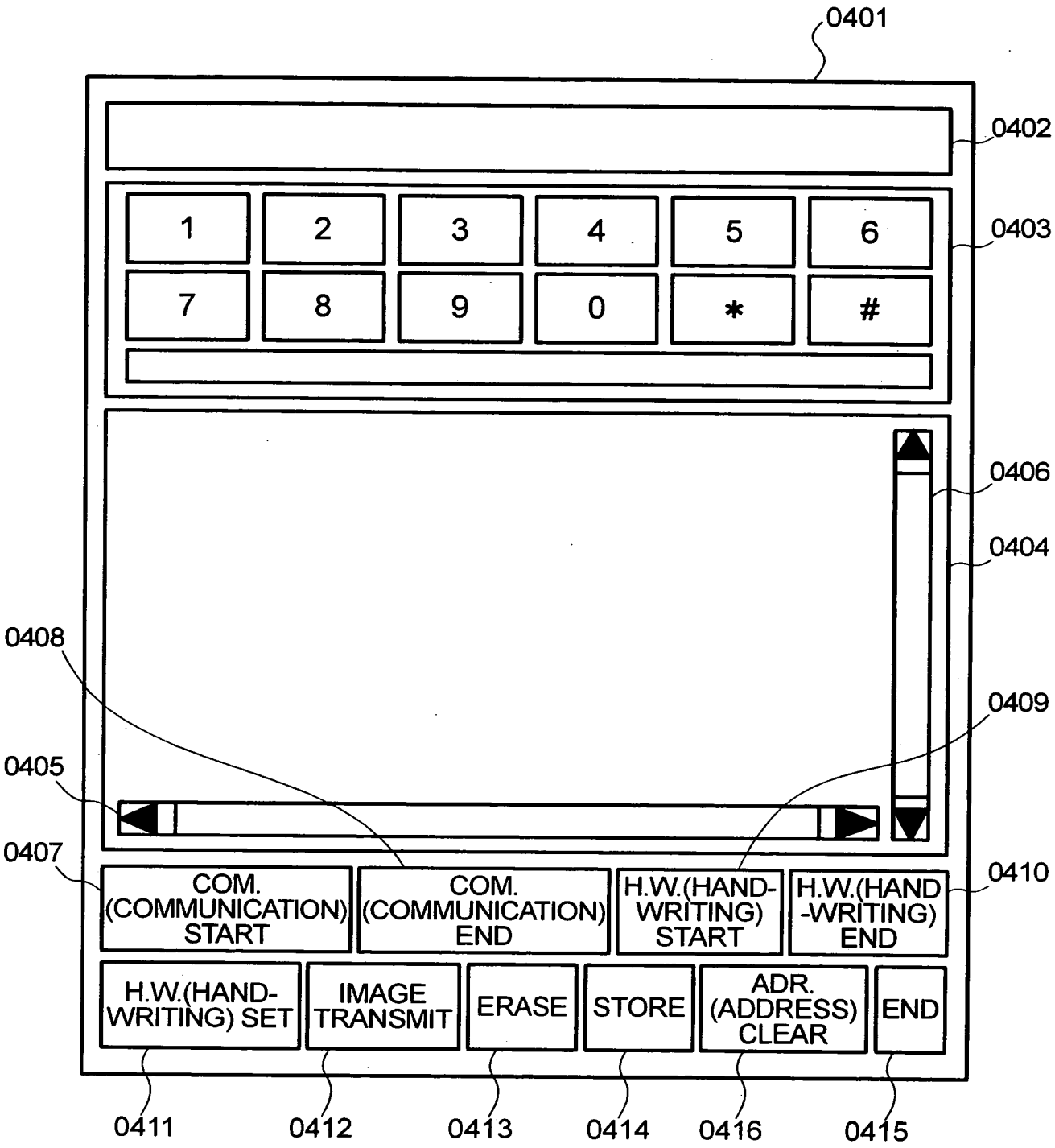

0401
0402
1
2
3
4
5
6
0403
7
8
9
0
*
#
0406
0404
0408
0409
0405
0407
COM. (COMMUNICATION) START
COM. (COMMUNICATION) END
H.W.(HAND-WRITING) START
H.W.(HAND-WRITING) END
0410
H.W.(HAND-WRITING) SET
IMAGE TRANSMIT
ERASE
STORE
ADR. (ADDRESS) CLEAR
END
0411
0412
0413
0414
0416
0415

FIG.3

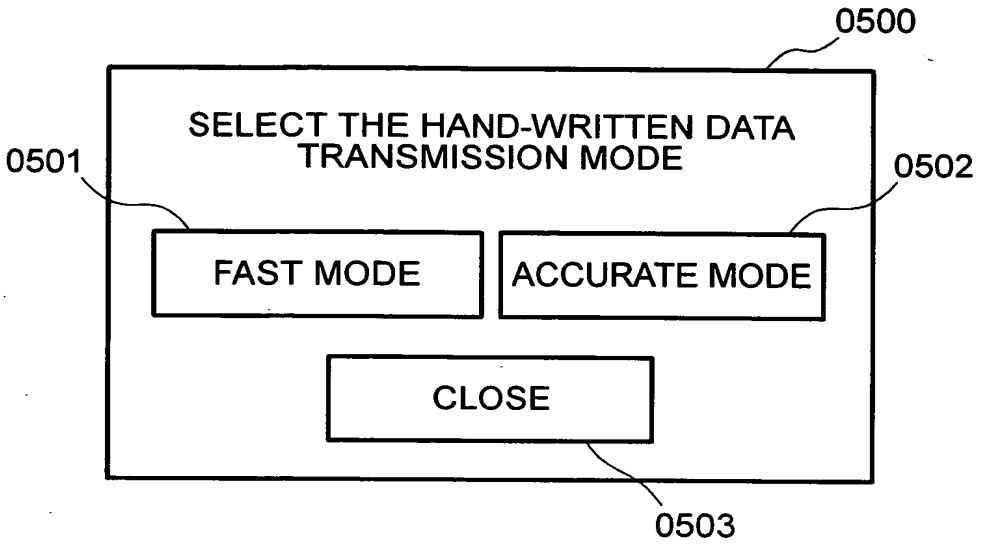

0500
SELECT THE HAND-WRITTEN DATA TRANSMISSION MODE
0501
0502
FAST MODE
ACCURATE MODE
CLOSE
0503

FIG.4

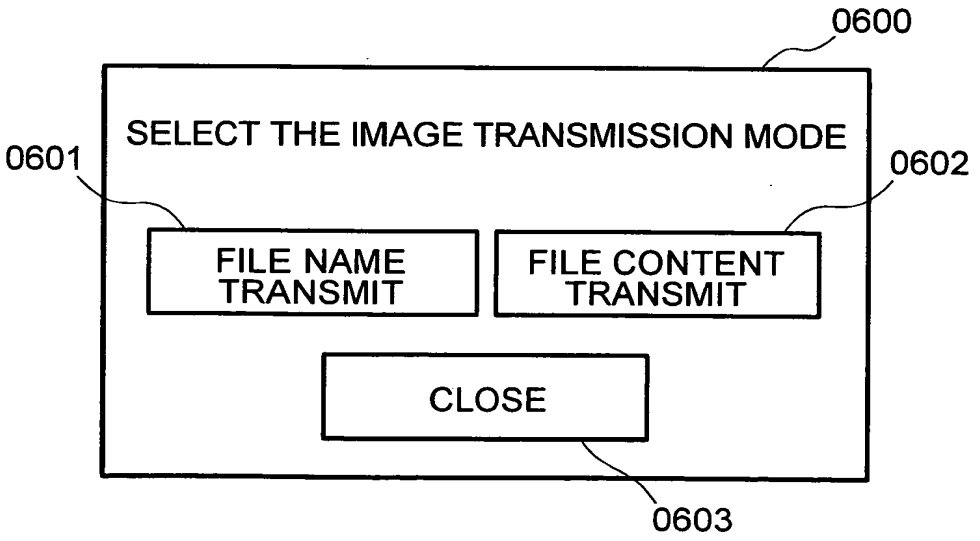

0600
SELECT THE IMAGE TRANSMISSION MODE
0601
0602
FILE NAME TRANSMIT
FILE CONTENT TRANSMIT
CLOSE
0603

FIG.5

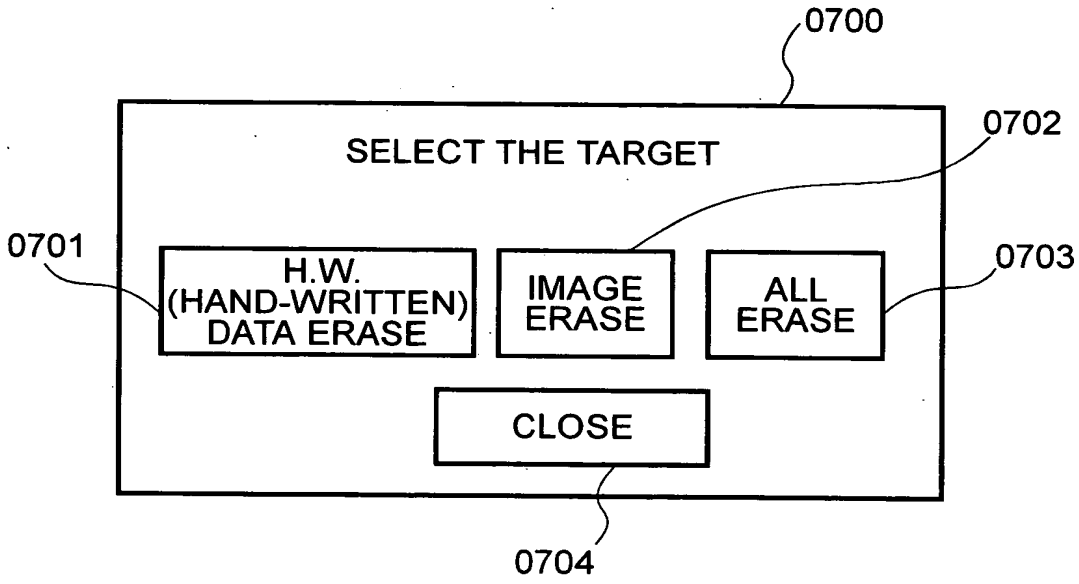

0700
SELECT THE TARGET
0702
0701
H.W.
(HAND-WRITTEN)
DATA ERASE
IMAGE
ERASE
ALL
ERASE
0703
CLOSE
0704

FIG.6

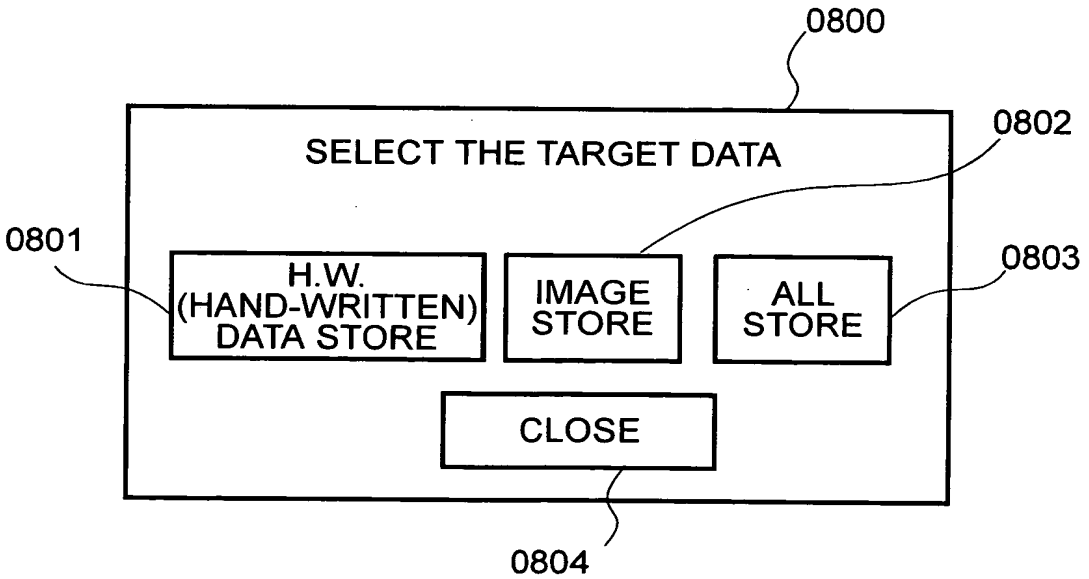

0800
SELECT THE TARGET DATA
0802
0801
H.W.
(HAND-WRITTEN)
DATA STORE
IMAGE
STORE
ALL
STORE
0803
CLOSE
0804

FIG.7

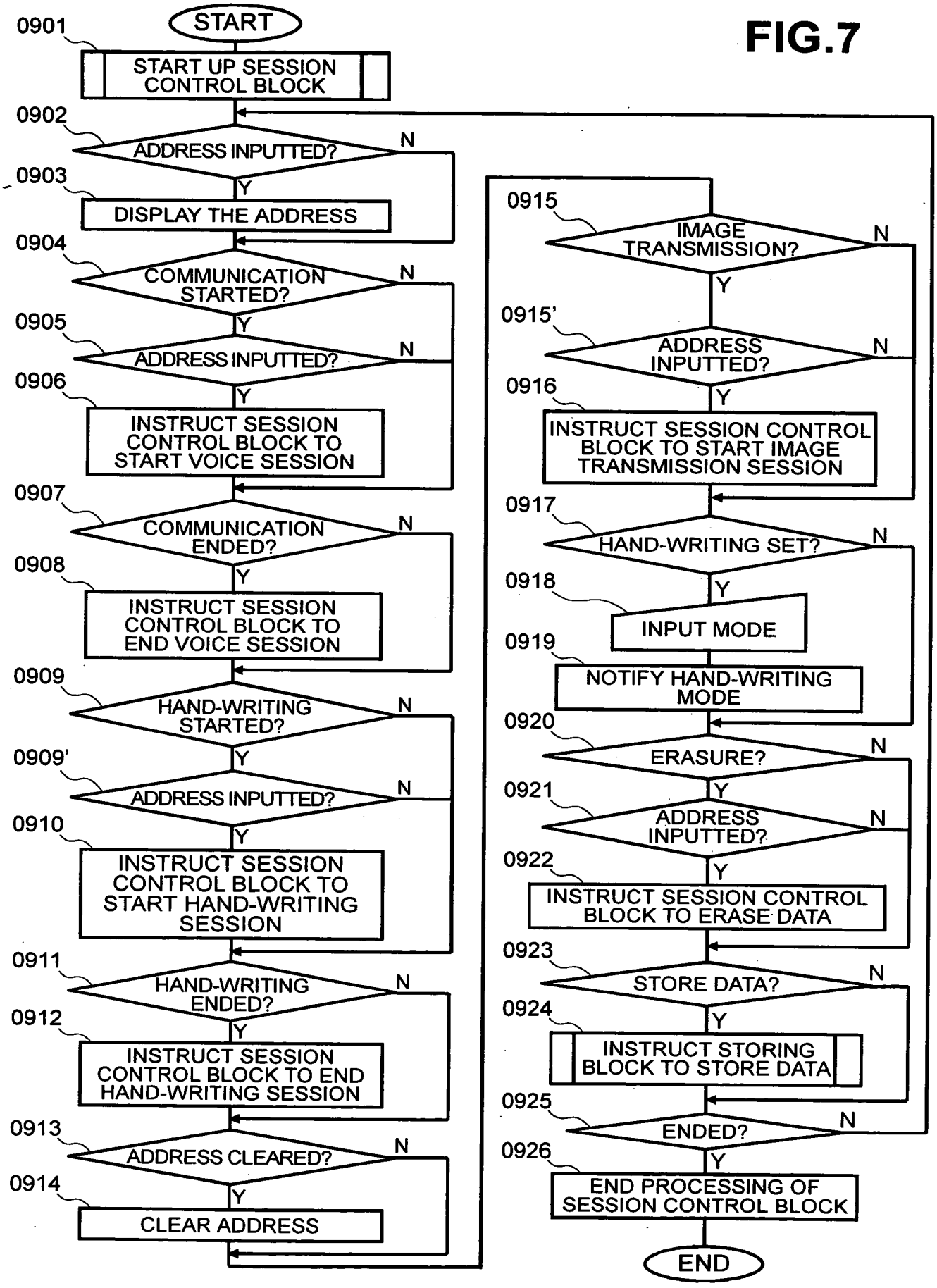

START
0901
START UP SESSION CONTROL BLOCK
0902
ADDRESS INPUTTED?
N
Y
0903
DISPLAY THE ADDRESS
0904
COMMUNICATION STARTED?
N
Y
0905
ADDRESS INPUTTED?
N
Y
0906
INSTRUCT SESSION CONTROL BLOCK TO START VOICE SESSION
0907
COMMUNICATION ENDED?
N
Y
0908
INSTRUCT SESSION CONTROL BLOCK TO END VOICE SESSION
0909
HAND-WRITING STARTED?
N
Y
0909'
ADDRESS INPUTTED?
N
Y
0910
INSTRUCT SESSION CONTROL BLOCK TO START HAND-WRITING SESSION
0911
HAND-WRITING ENDED?
N
Y
0912
INSTRUCT SESSION CONTROL BLOCK TO END HAND-WRITING SESSION
0913
ADDRESS CLEARED?
N
Y
0914
CLEAR ADDRESS
0915
IMAGE TRANSMISSION?
N
Y
0915'
ADDRESS INPUTTED?
N
Y
0916
INSTRUCT SESSION CONTROL BLOCK TO START IMAGE TRANSMISSION SESSION
0917
HAND-WRITING SET?
N
Y
0918
INPUT MODE
0919
NOTIFY HAND-WRITING MODE
0920
ERASURE?
N
Y
0921
ADDRESS INPUTTED?
N
Y
0922
INSTRUCT SESSION CONTROL BLOCK TO ERASE DATA
0923
STORE DATA?
N
Y
0924
INSTRUCT STORING BLOCK TO STORE DATA
0925
ENDED?
N
Y
0926
END PROCESSING OF SESSION CONTROL BLOCK
END

FIG.8

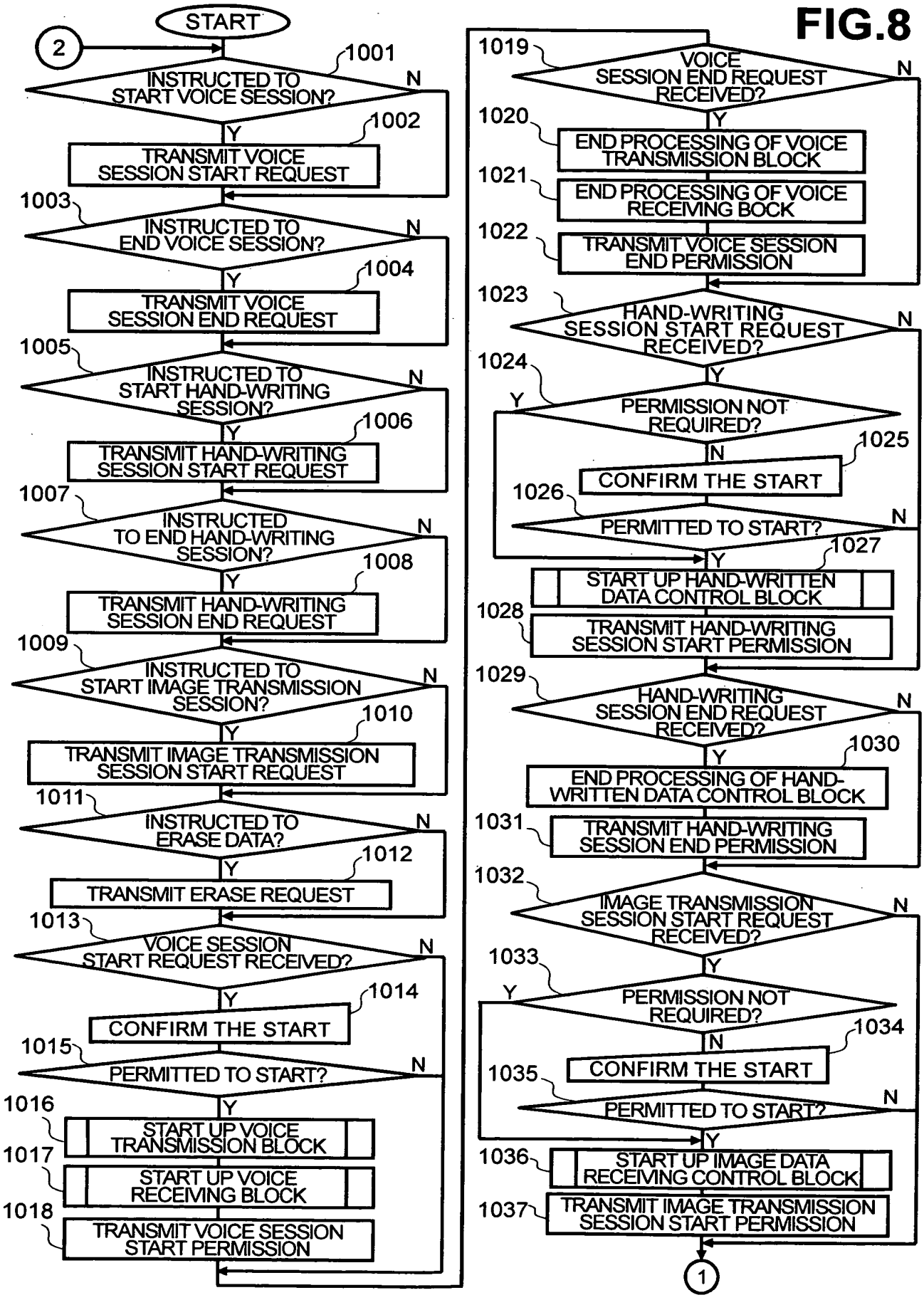

START
2
1001
INSTRUCTED TO START VOICE SESSION?
N
Y
1002
TRANSMIT VOICE SESSION START REQUEST
1003
INSTRUCTED TO END VOICE SESSION?
N
Y
1004
TRANSMIT VOICE SESSION END REQUEST
1005
INSTRUCTED TO START HAND-WRITING SESSION?
N
Y
1006
TRANSMIT HAND-WRITING SESSION START REQUEST
1007
INSTRUCTED TO END HAND-WRITING SESSION?
N
Y
1008
TRANSMIT HAND-WRITING SESSION END REQUEST
1009
INSTRUCTED TO START IMAGE TRANSMISSION SESSION?
N
Y
1010
TRANSMIT IMAGE TRANSMISSION SESSION START REQUEST
1011
INSTRUCTED TO ERASE DATA?
N
Y
1012
TRANSMIT ERASE REQUEST
1013
VOICE SESSION START REQUEST RECEIVED?
N
Y
1014
CONFIRM THE START
1015
PERMITTED TO START?
N
Y
1016
START UP VOICE TRANSMISSION BLOCK
1017
START UP VOICE RECEIVING BLOCK
1018
TRANSMIT VOICE SESSION START PERMISSION
1019
VOICE SESSION END REQUEST RECEIVED?
N
Y
1020
END PROCESSING OF VOICE TRANSMISSION BLOCK
1021
END PROCESSING OF VOICE RECEIVING BOCK
1022
TRANSMIT VOICE SESSION END PERMISSION
1023
HAND-WRITING SESSION START REQUEST RECEIVED?
N
Y
1024
PERMISSION NOT REQUIRED?
Y
N
1025
CONFIRM THE START
1026
PERMITTED TO START?
N
Y
1027
START UP HAND-WRITTEN DATA CONTROL BLOCK
1028
TRANSMIT HAND-WRITING SESSION START PERMISSION
1029
HAND-WRITING SESSION END REQUEST RECEIVED?
N
Y
1030
END PROCESSING OF HAND-WRITTEN DATA CONTROL BLOCK
1031
TRANSMIT HAND-WRITING SESSION END PERMISSION
1032
IMAGE TRANSMISSION SESSION START REQUEST RECEIVED?
N
Y
1033
PERMISSION NOT REQUIRED?
Y
N
1034
CONFIRM THE START
1035
PERMITTED TO START?
N
Y
1036
START UP IMAGE DATA RECEIVING CONTROL BLOCK
1037
TRANSMIT IMAGE TRANSMISSION SESSION START PERMISSION
1

FIG.9

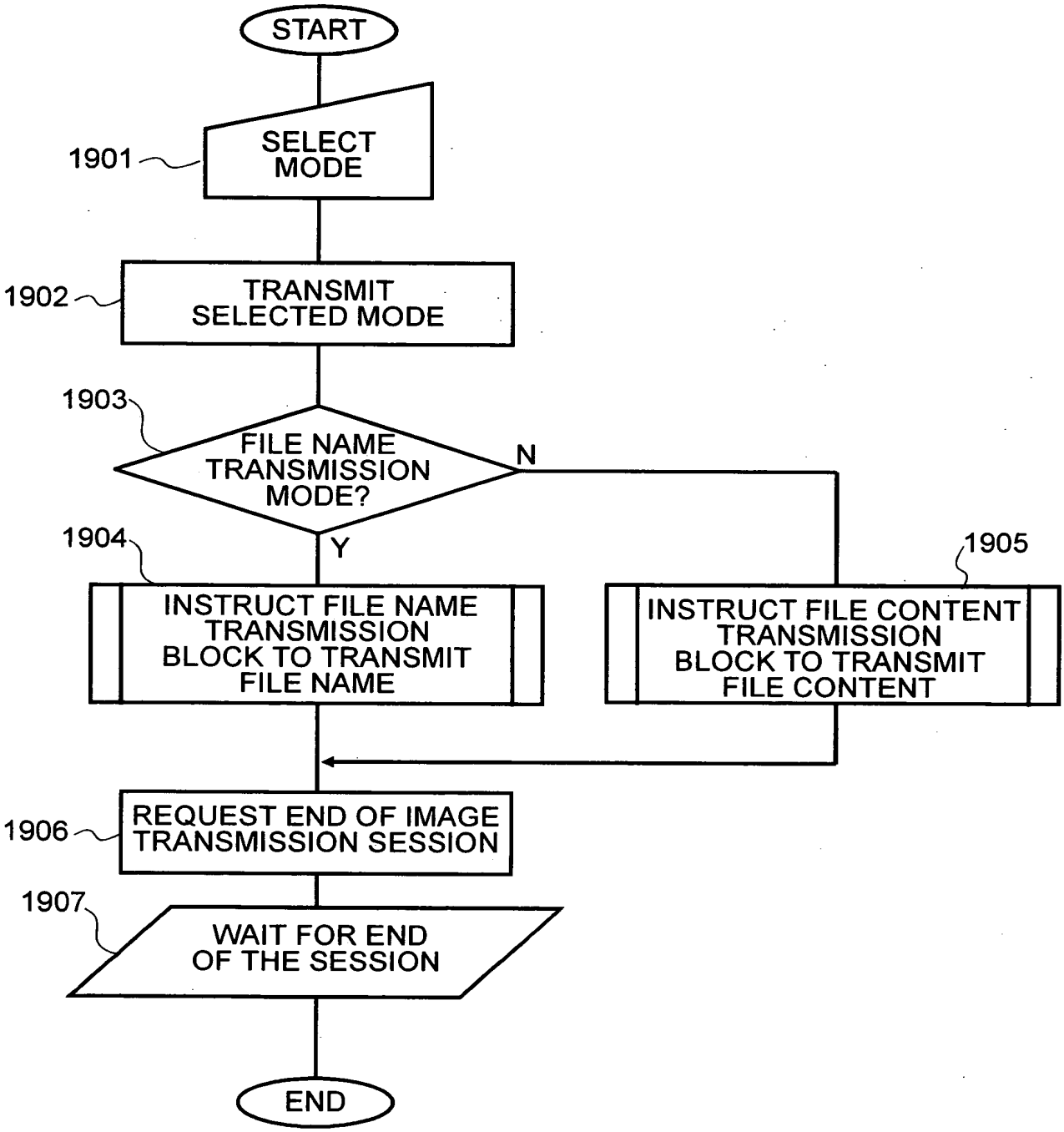
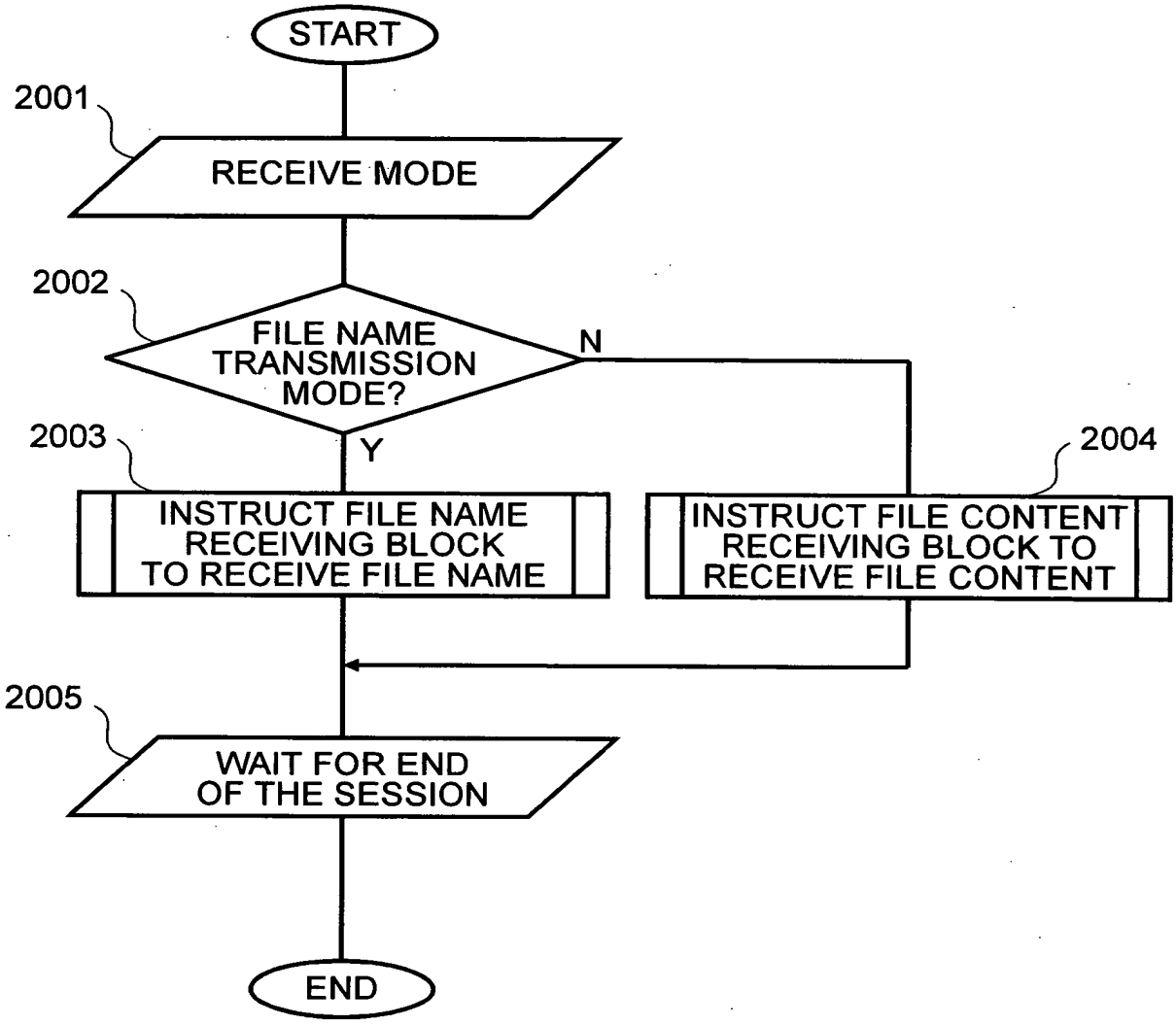

START
1901
SELECT MODE
1902
TRANSMIT SELECTED MODE
1903
FILE NAME TRANSMISSION MODE?
N
Y
1904
INSTRUCT FILE NAME TRANSMISSION BLOCK TO TRANSMIT FILE NAME
1905
INSTRUCT FILE CONTENT TRANSMISSION BLOCK TO TRANSMIT FILE CONTENT
1906
REQUEST END OF IMAGE TRANSMISSION SESSION
1907
WAIT FOR END OF THE SESSION
END

FIG.10


START
2001
RECEIVE MODE
2002
FILE NAME TRANSMISSION MODE?
N
Y
2003
INSTRUCT FILE NAME RECEIVING BLOCK TO RECEIVE FILE NAME
2004
INSTRUCT FILE CONTENT RECEIVING BLOCK TO RECEIVE FILE CONTENT
2005
WAIT FOR END OF THE SESSION
END

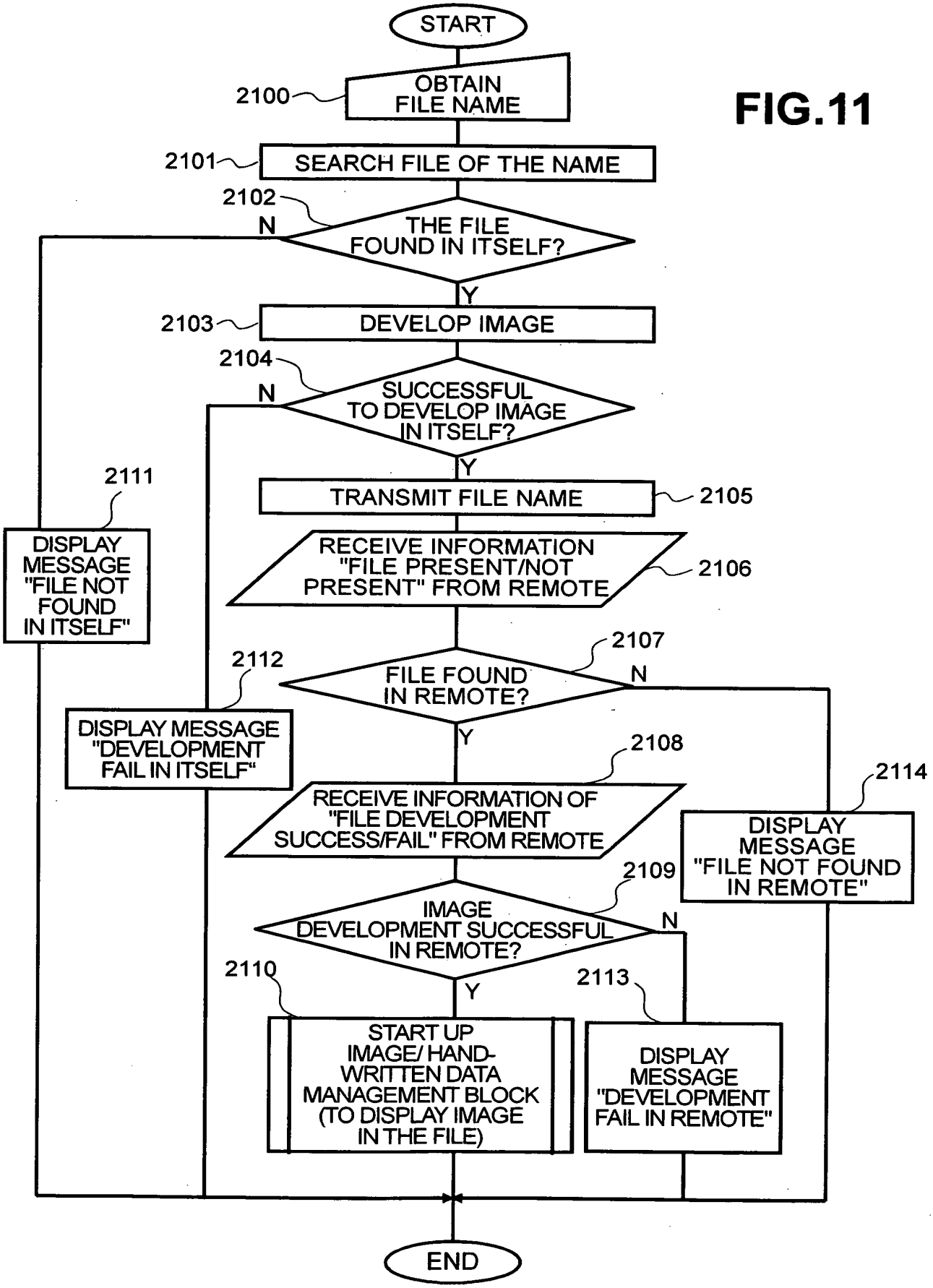

START
2100
OBTAIN FILE NAME
2101
SEARCH FILE OF THE NAME
2102
THE FILE FOUND IN ITSELF?
N
Y
2103
DEVELOP IMAGE
2104
SUCCESSFUL TO DEVELOP IMAGE IN ITSELF?
N
Y
2111
DISPLAY MESSAGE "FILE NOT FOUND IN ITSELF"
TRANSMIT FILE NAME
2105
RECEIVE INFORMATION "FILE PRESENT/NOT PRESENT" FROM REMOTE
2106
2107
FILE FOUND IN REMOTE?
N
Y
2112
DISPLAY MESSAGE "DEVELOPMENT FAIL IN ITSELF"
2108
RECEIVE INFORMATION OF "FILE DEVELOPMENT SUCCESS/FAIL" FROM REMOTE
2114
DISPLAY MESSAGE "FILE NOT FOUND IN REMOTE"
2109
IMAGE DEVELOPMENT SUCCESSFUL IN REMOTE?
N
Y
2110
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO DISPLAY IMAGE IN THE FILE)
2113
DISPLAY MESSAGE "DEVELOPMENT FAIL IN REMOTE"
END

FIG.11

FIG.12

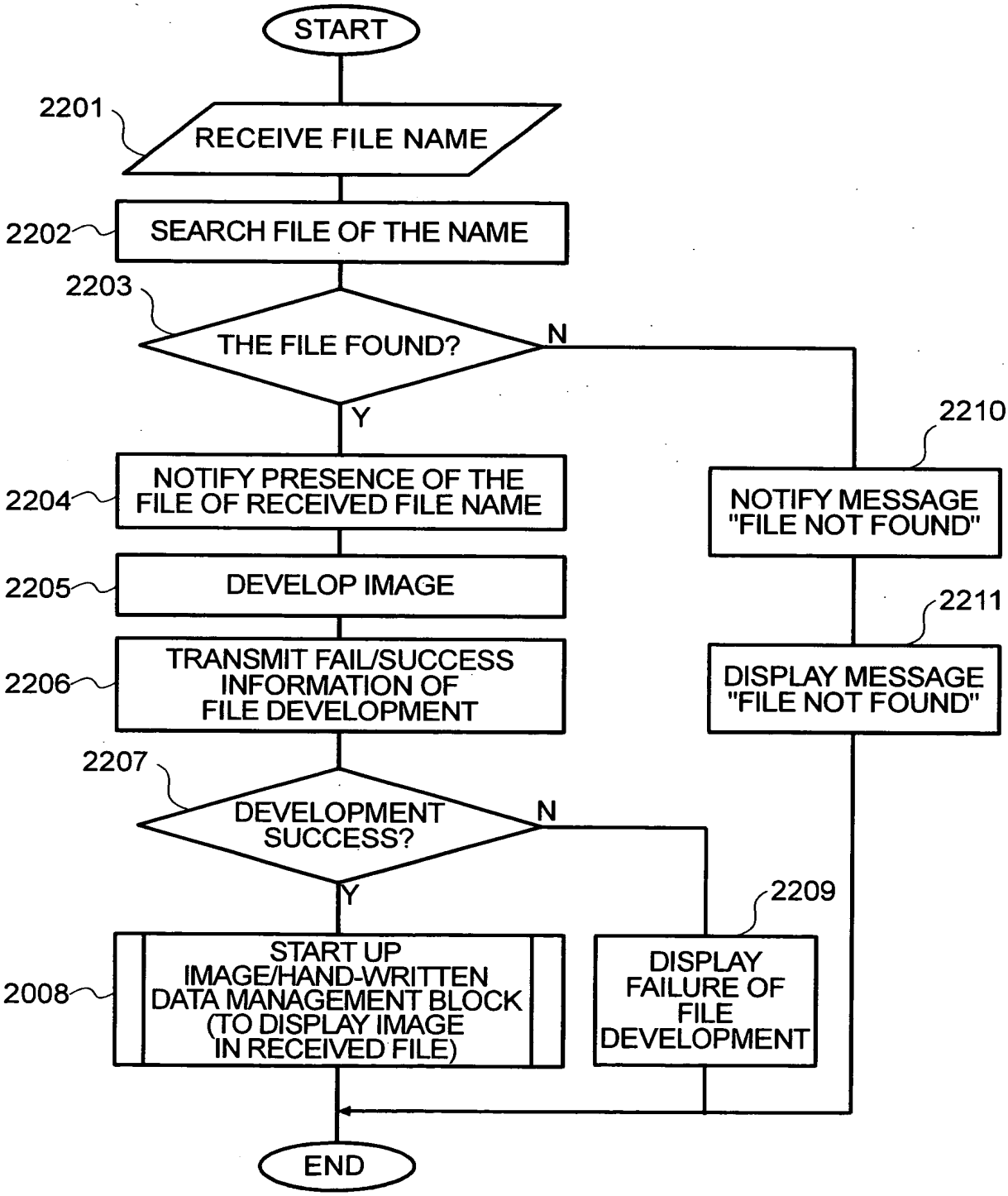
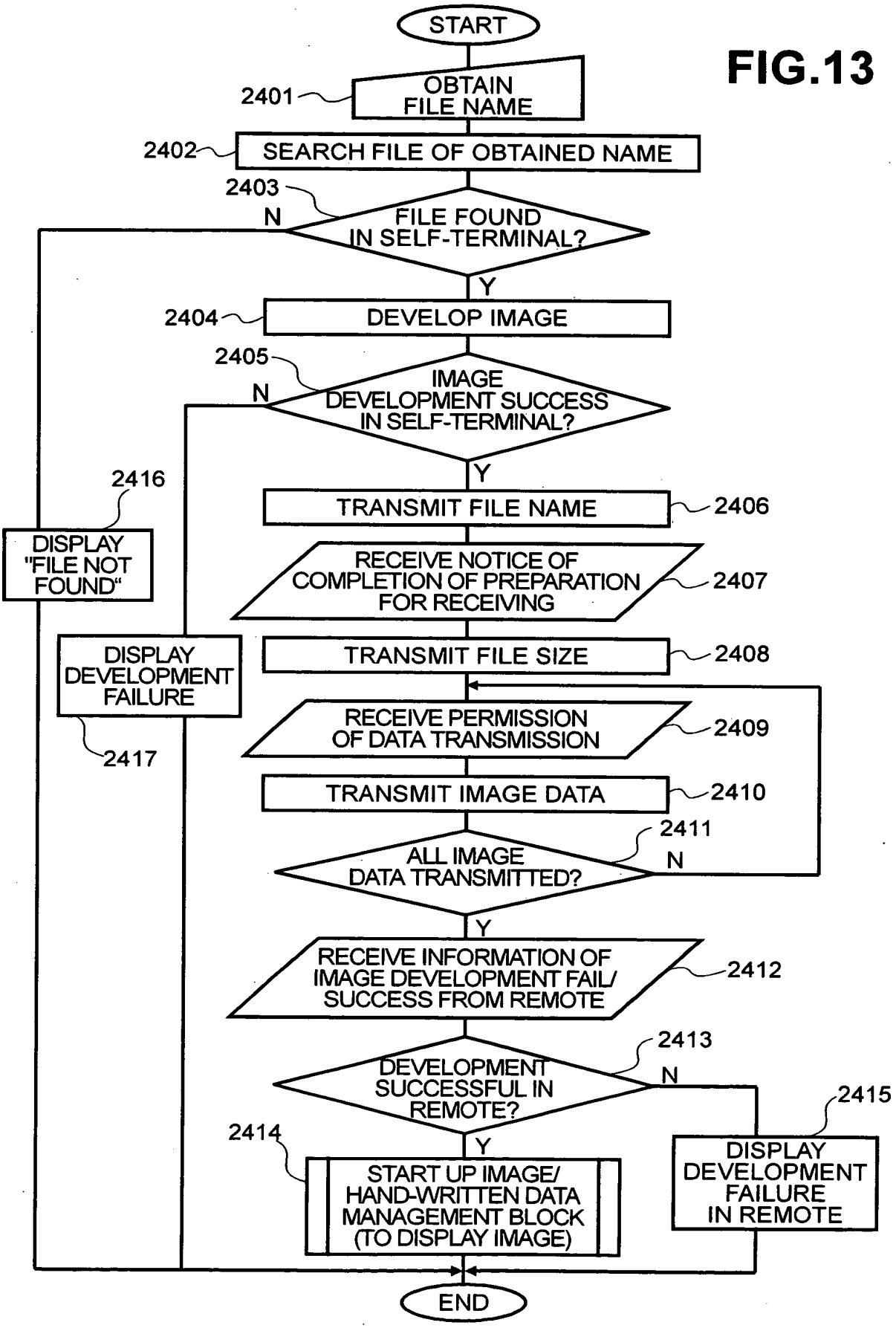

START
2201
RECEIVE FILE NAME
2202
SEARCH FILE OF THE NAME
2203
THE FILE FOUND?
N
Y
2210
NOTIFY MESSAGE "FILE NOT FOUND"
2204
NOTIFY PRESENCE OF THE FILE OF RECEIVED FILE NAME
2205
DEVELOP IMAGE
2211
DISPLAY MESSAGE "FILE NOT FOUND"
2206
TRANSMIT FAIL/SUCCESS INFORMATION OF FILE DEVELOPMENT
2207
DEVELOPMENT SUCCESS?
N
Y
2209
2008
START UP IMAGE/HAND-WRITTEN DATA MANAGEMENT BLOCK (TO DISPLAY IMAGE IN RECEIVED FILE)
DISPLAY FAILURE OF FILE DEVELOPMENT
END

FIG.13


START
2401
OBTAIN FILE NAME
2402
SEARCH FILE OF OBTAINED NAME
2403
FILE FOUND IN SELF-TERMINAL?
N
Y
2404
DEVELOP IMAGE
2405
IMAGE DEVELOPMENT SUCCESS IN SELF-TERMINAL?
N
Y
2416
DISPLAY "FILE NOT FOUND"
TRANSMIT FILE NAME
2406
RECEIVE NOTICE OF COMPLETION OF PREPARATION FOR RECEIVING
2407
DISPLAY DEVELOPMENT FAILURE
2417
TRANSMIT FILE SIZE
2408
RECEIVE PERMISSION OF DATA TRANSMISSION
2409
TRANSMIT IMAGE DATA
2410
2411
ALL IMAGE DATA TRANSMITTED?
N
Y
RECEIVE INFORMATION OF IMAGE DEVELOPMENT FAIL/ SUCCESS FROM REMOTE
2412
2413
DEVELOPMENT SUCCESSFUL IN REMOTE?
N
Y
2414
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO DISPLAY IMAGE)
2415
DISPLAY DEVELOPMENT FAILURE IN REMOTE
END

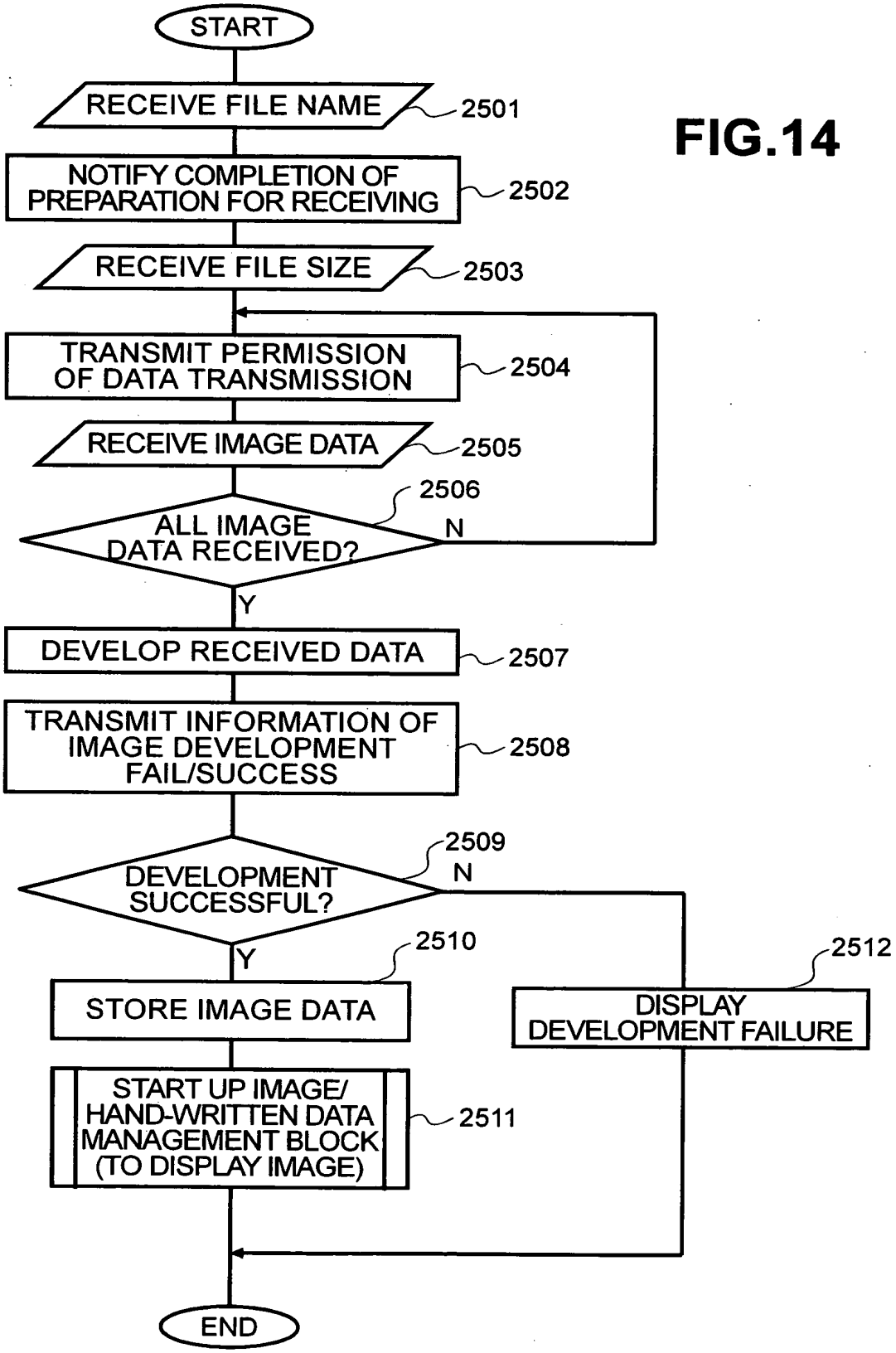

START
RECEIVE FILE NAME
2501
NOTIFY COMPLETION OF PREPARATION FOR RECEIVING
2502
RECEIVE FILE SIZE
2503
TRANSMIT PERMISSION OF DATA TRANSMISSION
2504
RECEIVE IMAGE DATA
2505
2506
ALL IMAGE DATA RECEIVED?
N
Y
DEVELOP RECEIVED DATA
2507
TRANSMIT INFORMATION OF IMAGE DEVELOPMENT FAIL/SUCCESS
2508
2509
DEVELOPMENT SUCCESSFUL?
N
Y
2510
STORE IMAGE DATA
2512
DISPLAY DEVELOPMENT FAILURE
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO DISPLAY IMAGE)
2511
END

FIG.14

FIG.15

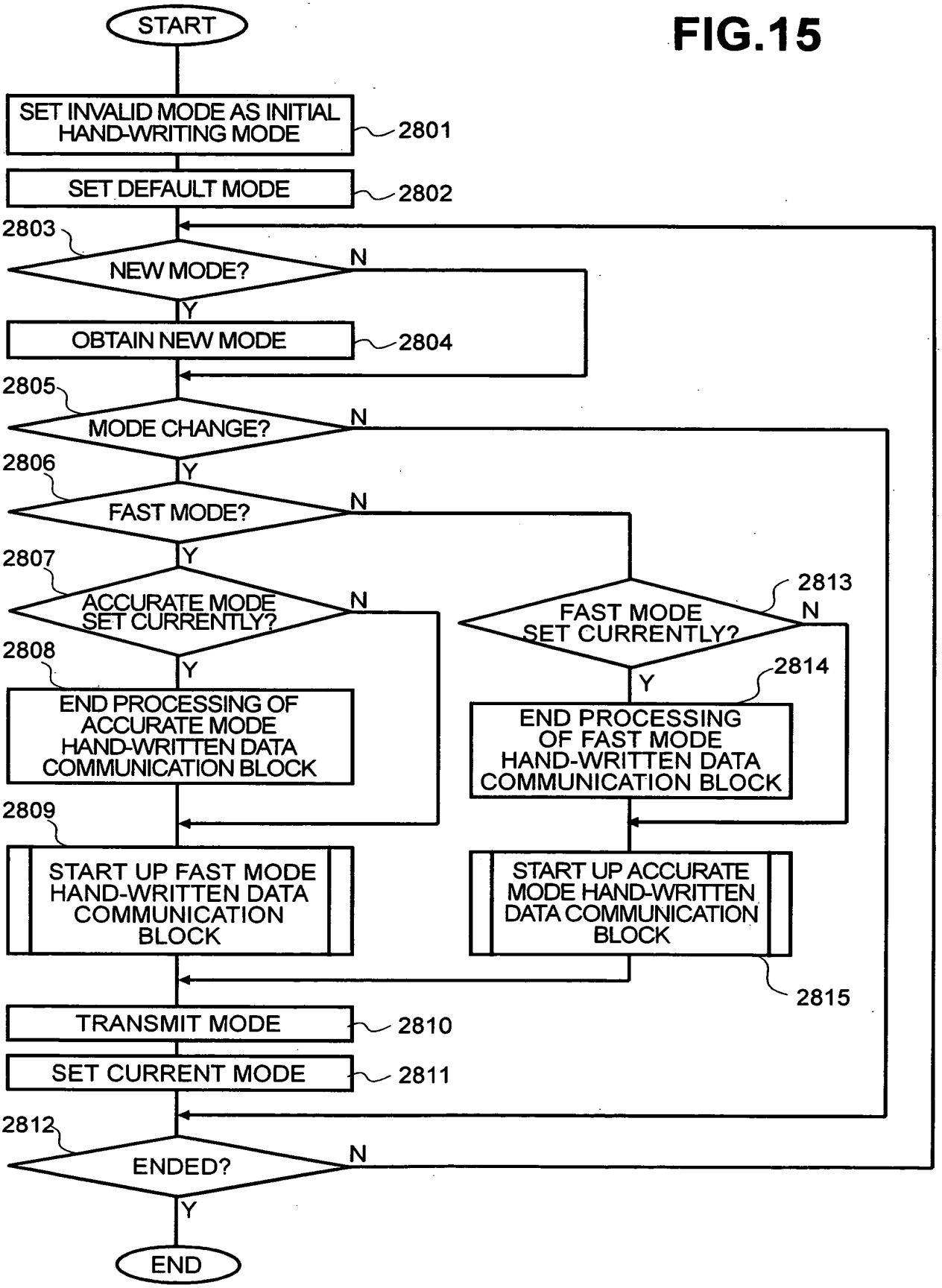

START
SET INVALID MODE AS INITIAL HAND-WRITING MODE
2801
SET DEFAULT MODE
2802
2803
NEW MODE?
N
Y
OBTAIN NEW MODE
2804
2805
MODE CHANGE?
N
Y
2806
FAST MODE?
N
Y
2807
ACCURATE MODE SET CURRENTLY?
N
Y
2808
END PROCESSING OF ACCURATE MODE HAND-WRITTEN DATA COMMUNICATION BLOCK
2809
START UP FAST MODE HAND-WRITTEN DATA COMMUNICATION BLOCK
2813
FAST MODE SET CURRENTLY?
N
Y
2814
END PROCESSING OF FAST MODE HAND-WRITTEN DATA COMMUNICATION BLOCK
START UP ACCURATE MODE HAND-WRITTEN DATA COMMUNICATION BLOCK
2815
TRANSMIT MODE
2810
SET CURRENT MODE
2811
2812
ENDED?
N
Y
END

FIG.16

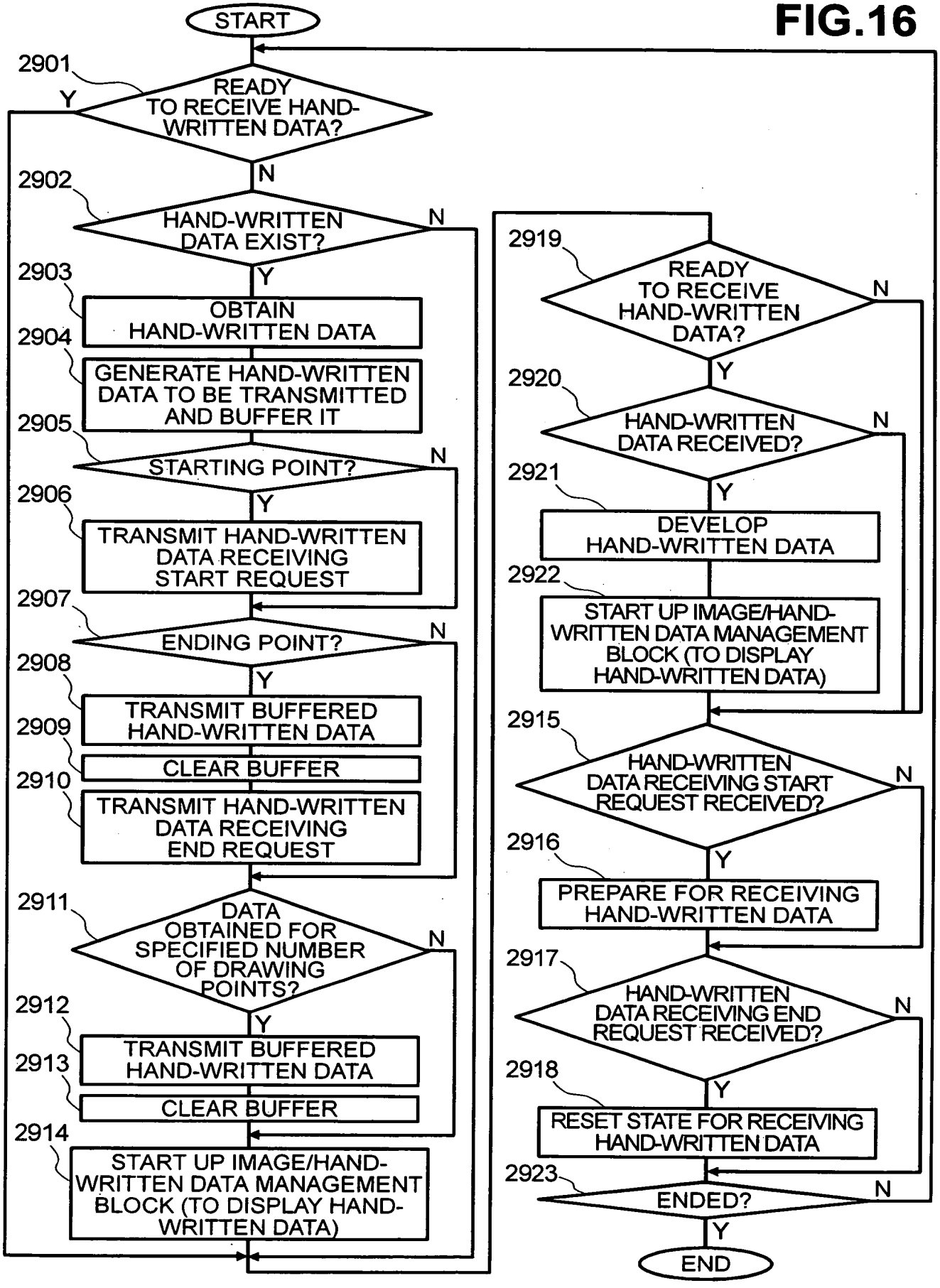
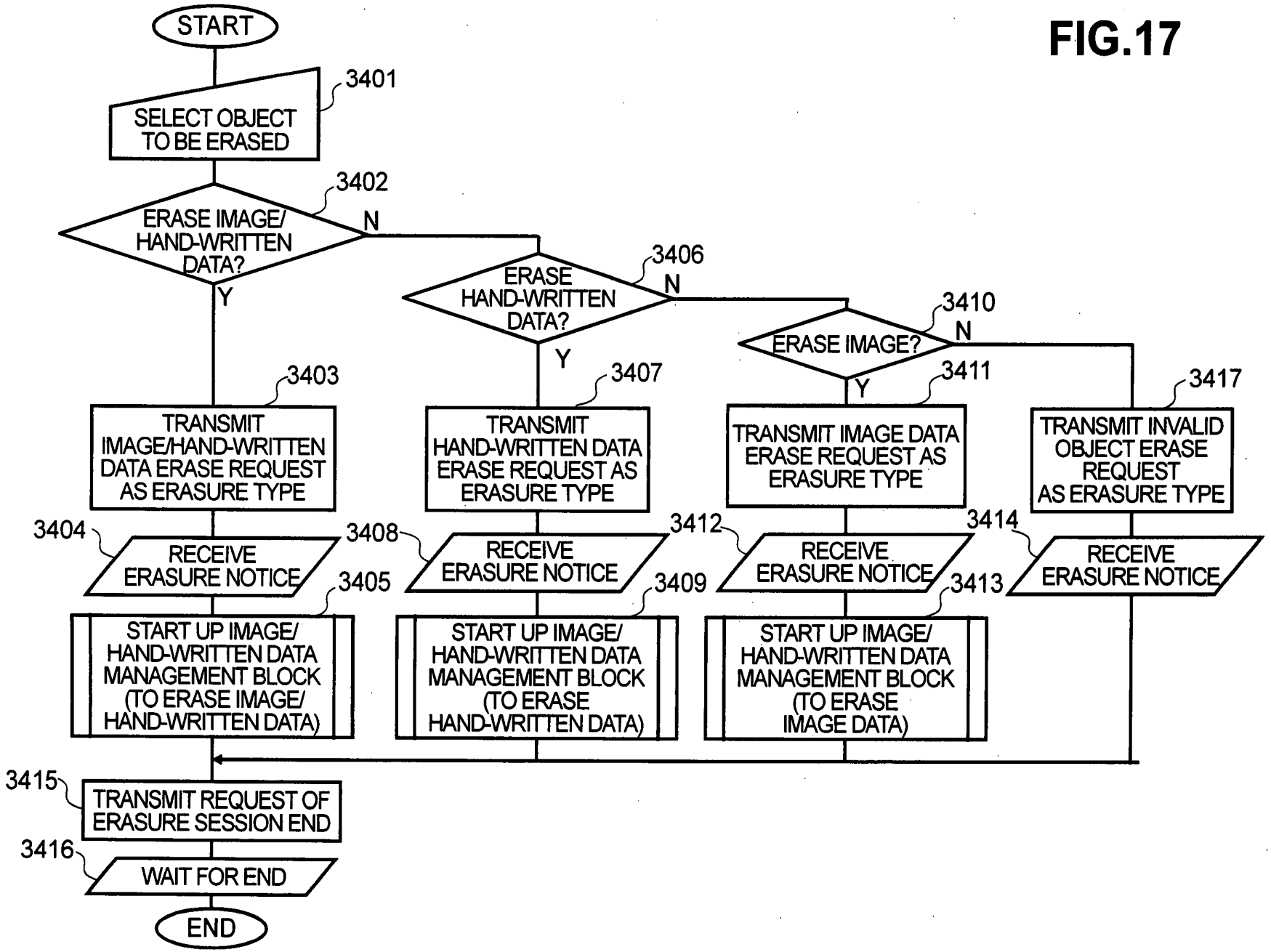

START
2901
READY TO RECEIVE HAND-WRITTEN DATA?
Y
N
2902
HAND-WRITTEN DATA EXIST?
N
Y
2903
OBTAIN HAND-WRITTEN DATA
2904
GENERATE HAND-WRITTEN DATA TO BE TRANSMITTED AND BUFFER IT
2905
STARTING POINT?
N
Y
2906
TRANSMIT HAND-WRITTEN DATA RECEIVING START REQUEST
2907
ENDING POINT?
N
Y
2908
TRANSMIT BUFFERED HAND-WRITTEN DATA
2909
CLEAR BUFFER
2910
TRANSMIT HAND-WRITTEN DATA RECEIVING END REQUEST
2911
DATA OBTAINED FOR SPECIFIED NUMBER OF DRAWING POINTS?
N
Y
2912
TRANSMIT BUFFERED HAND-WRITTEN DATA
2913
CLEAR BUFFER
2914
START UP IMAGE/HAND-WRITTEN DATA MANAGEMENT BLOCK (TO DISPLAY HAND-WRITTEN DATA)
2919
READY TO RECEIVE HAND-WRITTEN DATA?
N
Y
2920
HAND-WRITTEN DATA RECEIVED?
N
Y
2921
DEVELOP HAND-WRITTEN DATA
2922
START UP IMAGE/HAND-WRITTEN DATA MANAGEMENT BLOCK (TO DISPLAY HAND-WRITTEN DATA)
2915
HAND-WRITTEN DATA RECEIVING START REQUEST RECEIVED?
N
Y
2916
PREPARE FOR RECEIVING HAND-WRITTEN DATA
2917
HAND-WRITTEN DATA RECEIVING END REQUEST RECEIVED?
N
Y
2918
RESET STATE FOR RECEIVING HAND-WRITTEN DATA
2923
ENDED?
N
Y
END

FIG.17


START
3401
SELECT OBJECT TO BE ERASED
3402
ERASE IMAGE/ HAND-WRITTEN DATA?
N
Y
3406
ERASE HAND-WRITTEN DATA?
N
Y
3410
ERASE IMAGE?
N
Y
3403
TRANSMIT IMAGE/HAND-WRITTEN DATA ERASE REQUEST AS ERASURE TYPE
3407
TRANSMIT HAND-WRITTEN DATA ERASE REQUEST AS ERASURE TYPE
3411
TRANSMIT IMAGE DATA ERASE REQUEST AS ERASURE TYPE
3417
TRANSMIT INVALID OBJECT ERASE REQUEST AS ERASURE TYPE
3404
RECEIVE ERASURE NOTICE
3408
RECEIVE ERASURE NOTICE
3412
RECEIVE ERASURE NOTICE
3414
RECEIVE ERASURE NOTICE
3405
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO ERASE IMAGE/ HAND-WRITTEN DATA)
3409
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO ERASE HAND-WRITTEN DATA)
3413
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO ERASE IMAGE DATA)
3415
TRANSMIT REQUEST OF ERASURE SESSION END
3416
WAIT FOR END
END

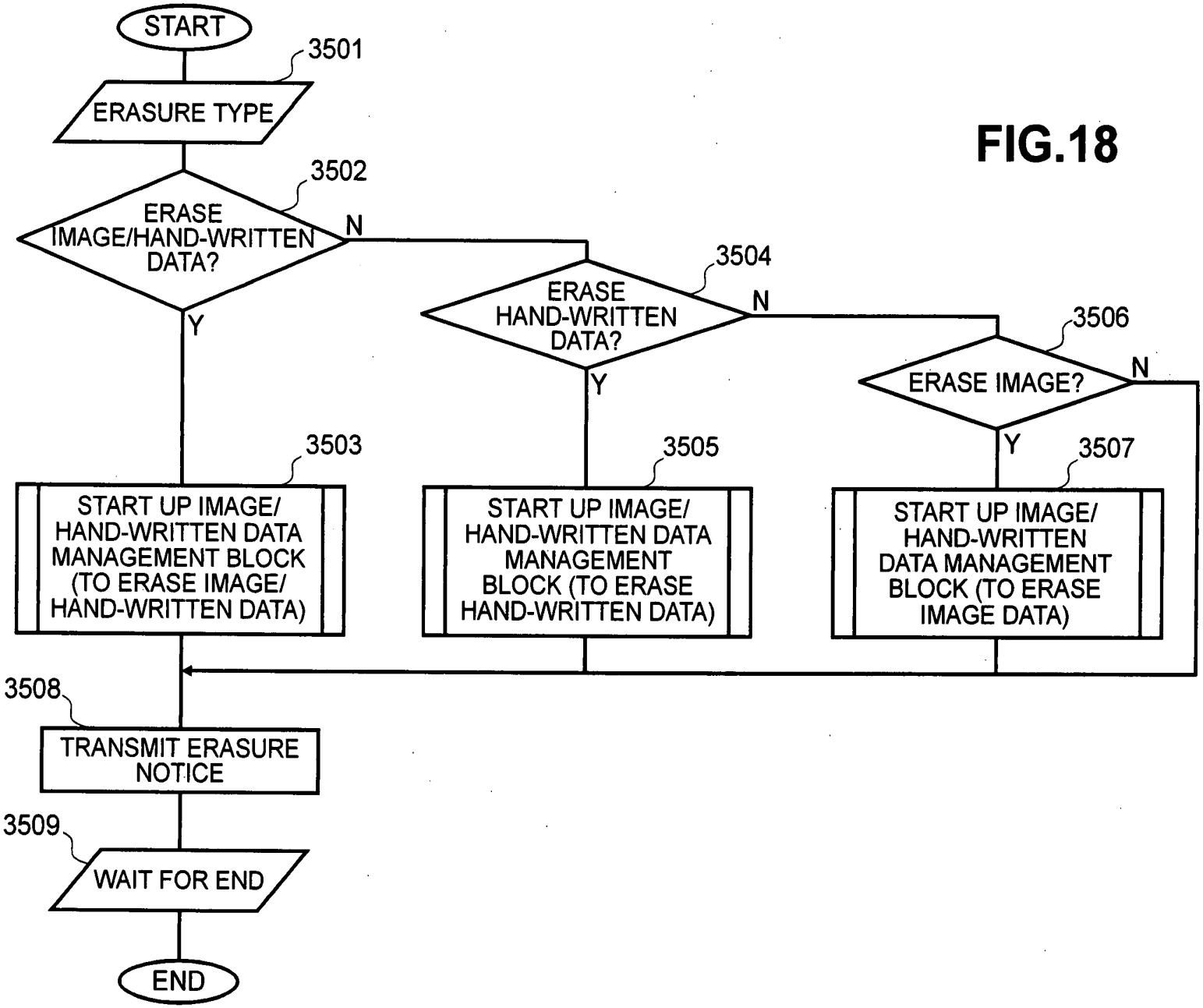

START
3501
ERASURE TYPE
3502
ERASE IMAGE/HAND-WRITTEN DATA?
N
Y
3504
ERASE HAND-WRITTEN DATA?
N
Y
3506
ERASE IMAGE?
N
Y
3503
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO ERASE IMAGE/ HAND-WRITTEN DATA)
3505
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO ERASE HAND-WRITTEN DATA)
3507
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO ERASE IMAGE DATA)
3508
TRANSMIT ERASURE NOTICE
3509
WAIT FOR END
END

FIG.18

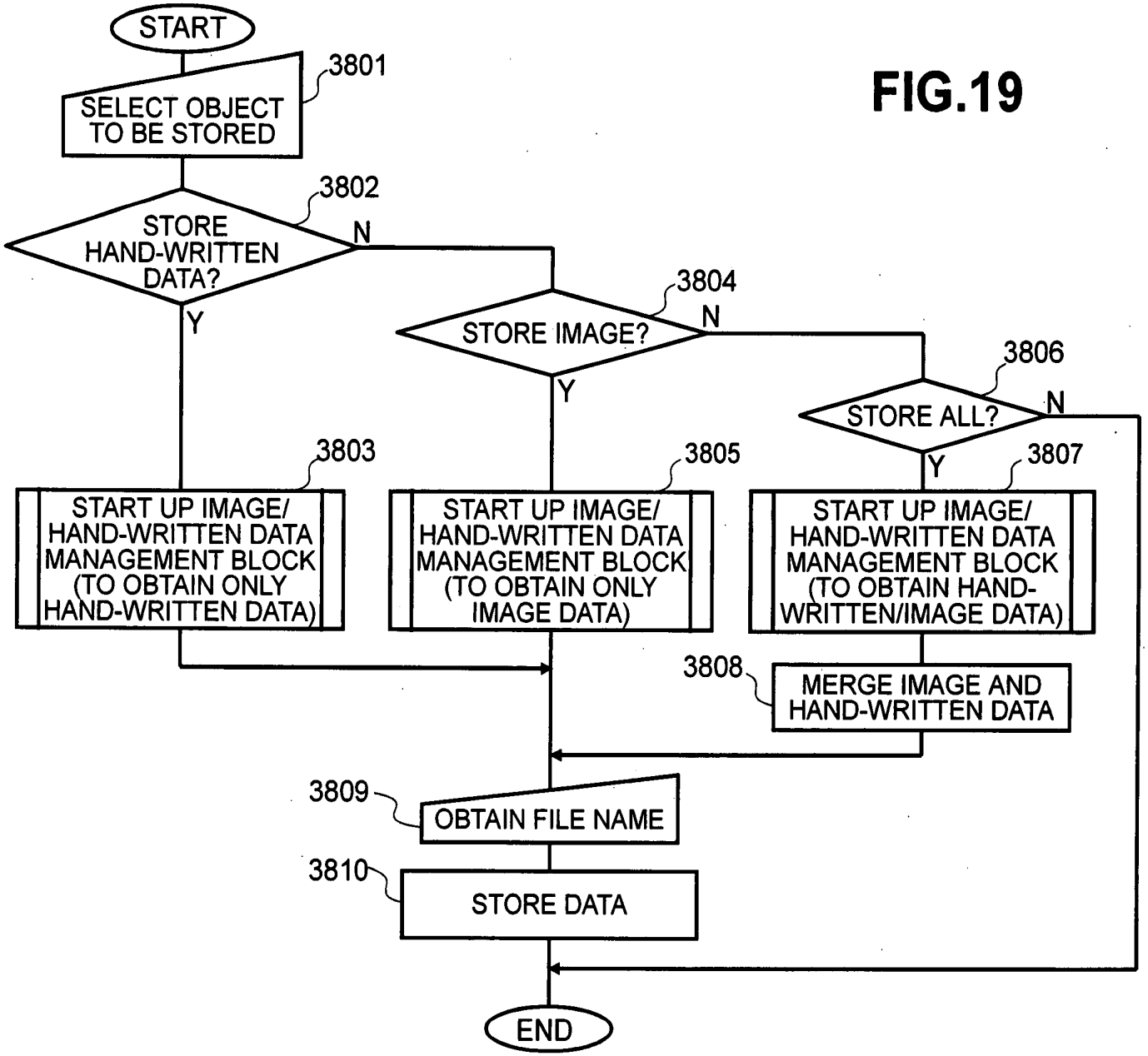

START
3801
SELECT OBJECT TO BE STORED
3802
STORE HAND-WRITTEN DATA?
N
Y
3804
STORE IMAGE?
N
Y
3806
STORE ALL?
N
Y
3803
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO OBTAIN ONLY HAND-WRITTEN DATA)
3805
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO OBTAIN ONLY IMAGE DATA)
3807
START UP IMAGE/ HAND-WRITTEN DATA MANAGEMENT BLOCK (TO OBTAIN HAND-WRITTEN/IMAGE DATA)
3808
MERGE IMAGE AND HAND-WRITTEN DATA
3809
OBTAIN FILE NAME
3810
STORE DATA
END

FIG.19

FIG.20

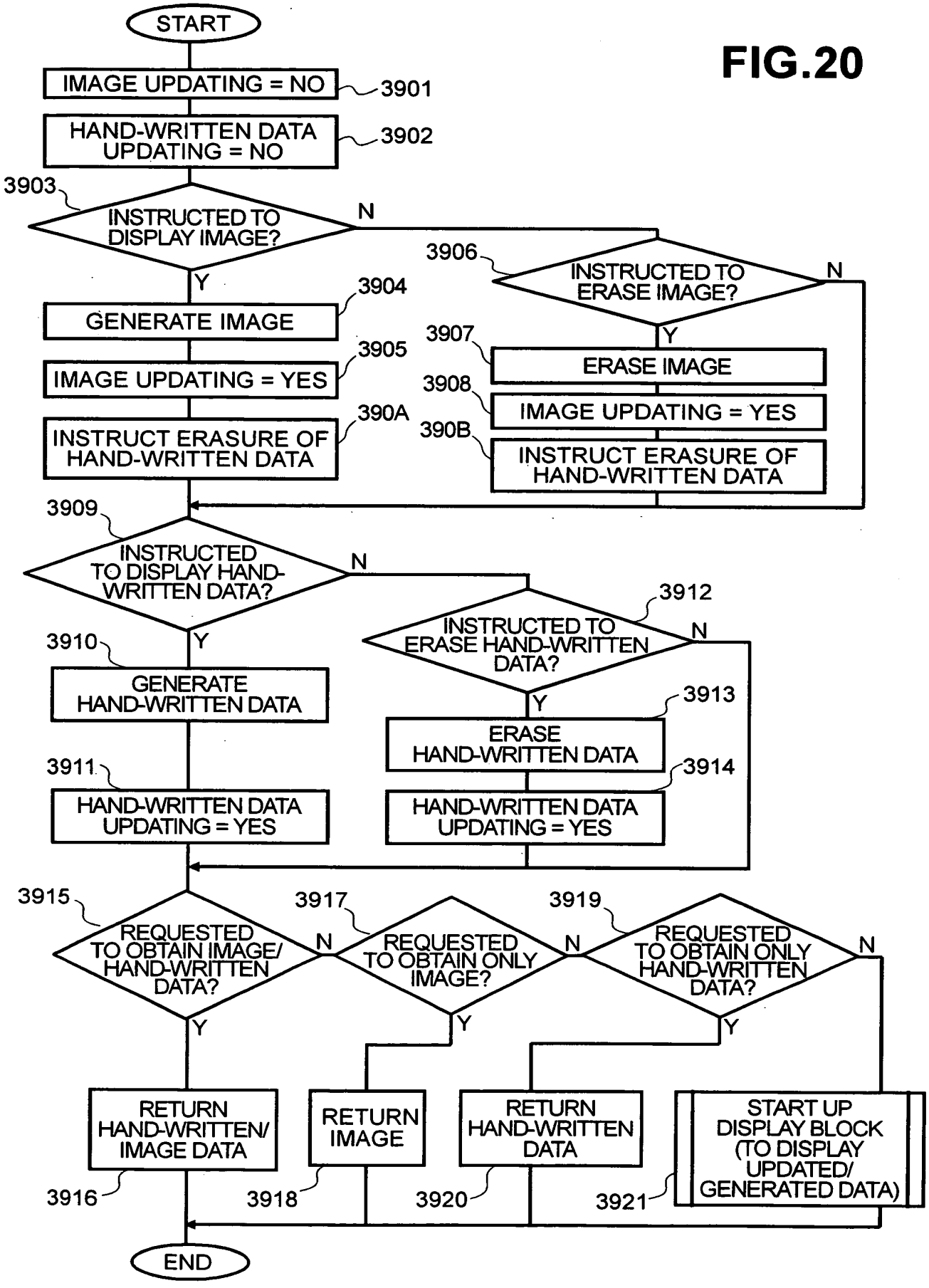

START
IMAGE UPDATING = NO
3901
HAND-WRITTEN DATA UPDATING = NO
3902
3903
INSTRUCTED TO DISPLAY IMAGE?
N
Y
3904
GENERATE IMAGE
3905
IMAGE UPDATING = YES
390A
INSTRUCT ERASURE OF HAND-WRITTEN DATA
3906
INSTRUCTED TO ERASE IMAGE?
N
Y
3907
ERASE IMAGE
3908
IMAGE UPDATING = YES
390B
INSTRUCT ERASURE OF HAND-WRITTEN DATA
3909
INSTRUCTED TO DISPLAY HAND-WRITTEN DATA?
N
Y
3910
GENERATE HAND-WRITTEN DATA
3911
HAND-WRITTEN DATA UPDATING = YES
3912
INSTRUCTED TO ERASE HAND-WRITTEN DATA?
N
Y
3913
ERASE HAND-WRITTEN DATA
3914
HAND-WRITTEN DATA UPDATING = YES
3915
REQUESTED TO OBTAIN IMAGE/ HAND-WRITTEN DATA?
N
Y
3917
REQUESTED TO OBTAIN ONLY IMAGE?
N
Y
3919
REQUESTED TO OBTAIN ONLY HAND-WRITTEN DATA?
N
Y
RETURN HAND-WRITTEN/ IMAGE DATA
3916
RETURN IMAGE
3918
RETURN HAND-WRITTEN DATA
3920
START UP DISPLAY BLOCK (TO DISPLAY UPDATED/ GENERATED DATA)
3921
END

FIG.21

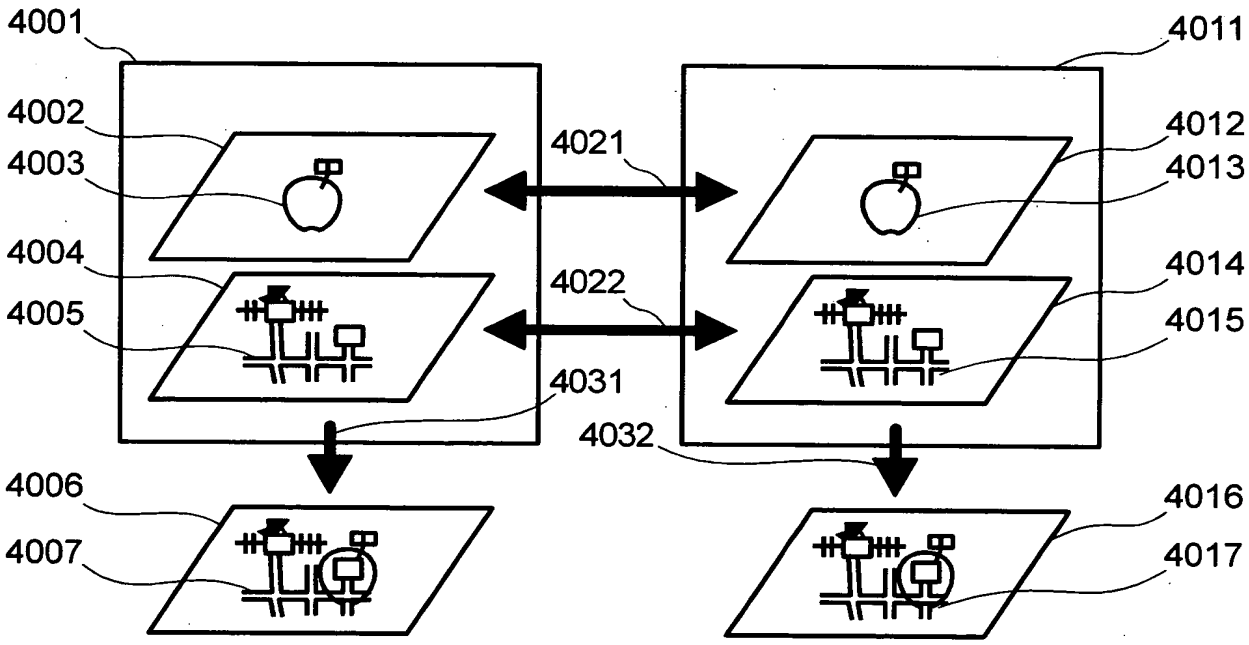

4001
4011
4002
4012
4003
4021
4013
4004
4014
4005
4022
4015
4031
4032
4006
4016
4007
4017

FIG.22

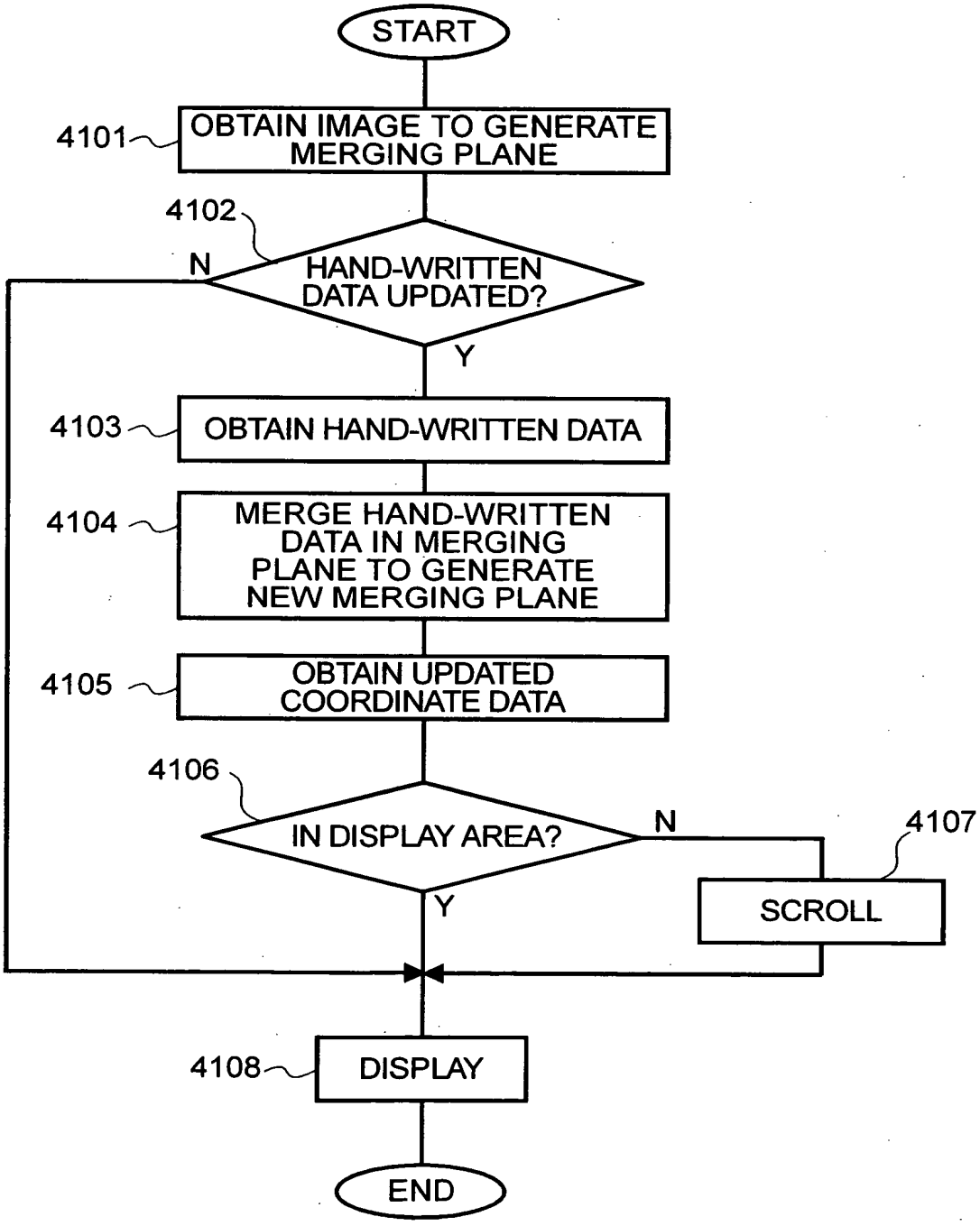

START
4101
OBTAIN IMAGE TO GENERATE MERGING PLANE
4102
HAND-WRITTEN DATA UPDATED?
N
Y
4103
OBTAIN HAND-WRITTEN DATA
4104
MERGE HAND-WRITTEN DATA IN MERGING PLANE TO GENERATE NEW MERGING PLANE
4105
OBTAIN UPDATED COORDINATE DATA
4106
IN DISPLAY AREA?
N
Y
4107
SCROLL
4108
DISPLAY
END

FIG.23

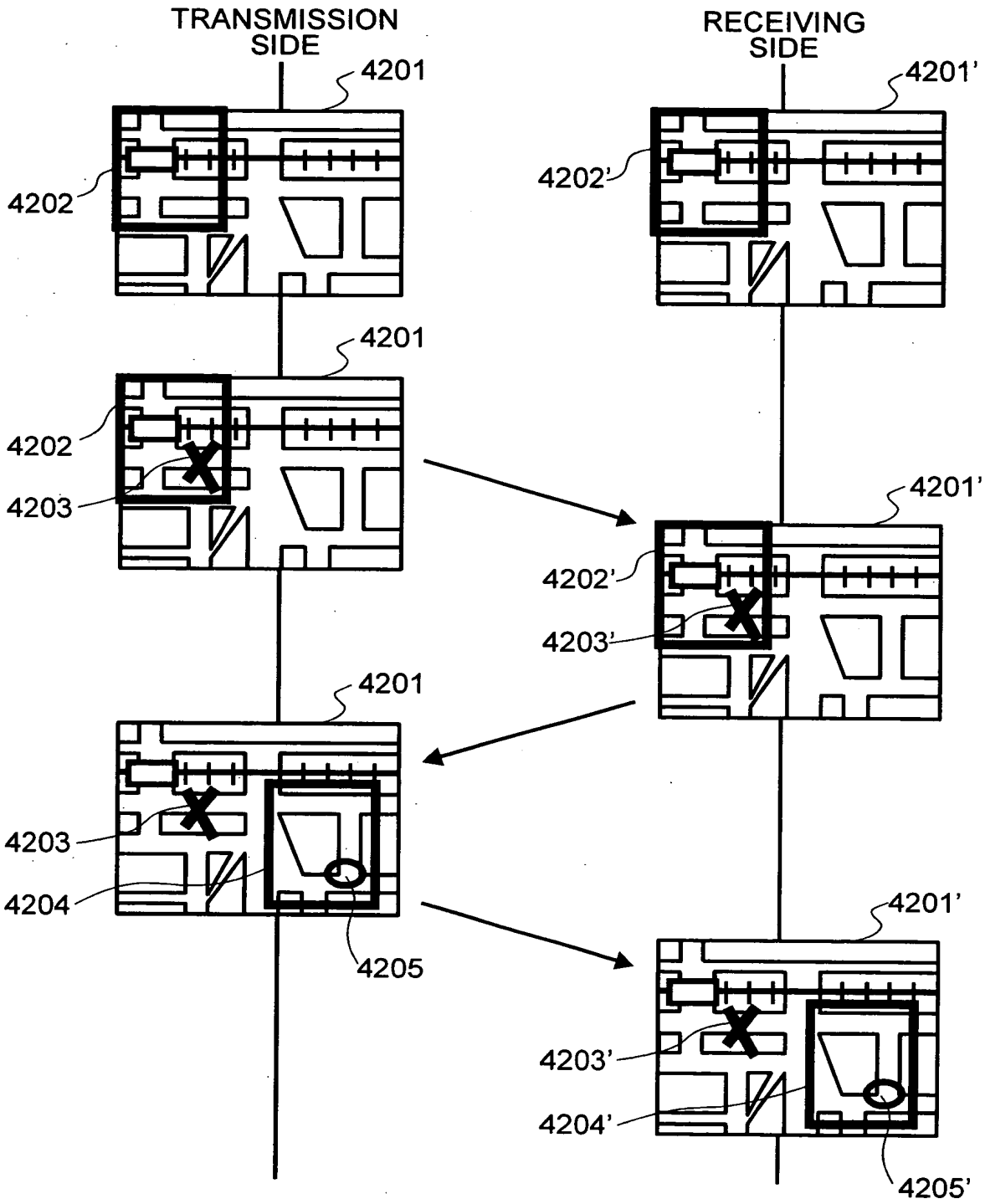

TRANSMISSION SIDE
RECEIVING SIDE
4201
4202
4203
4204
4205
4201'
4202'
4203'
4204'
4205'

FIG.24

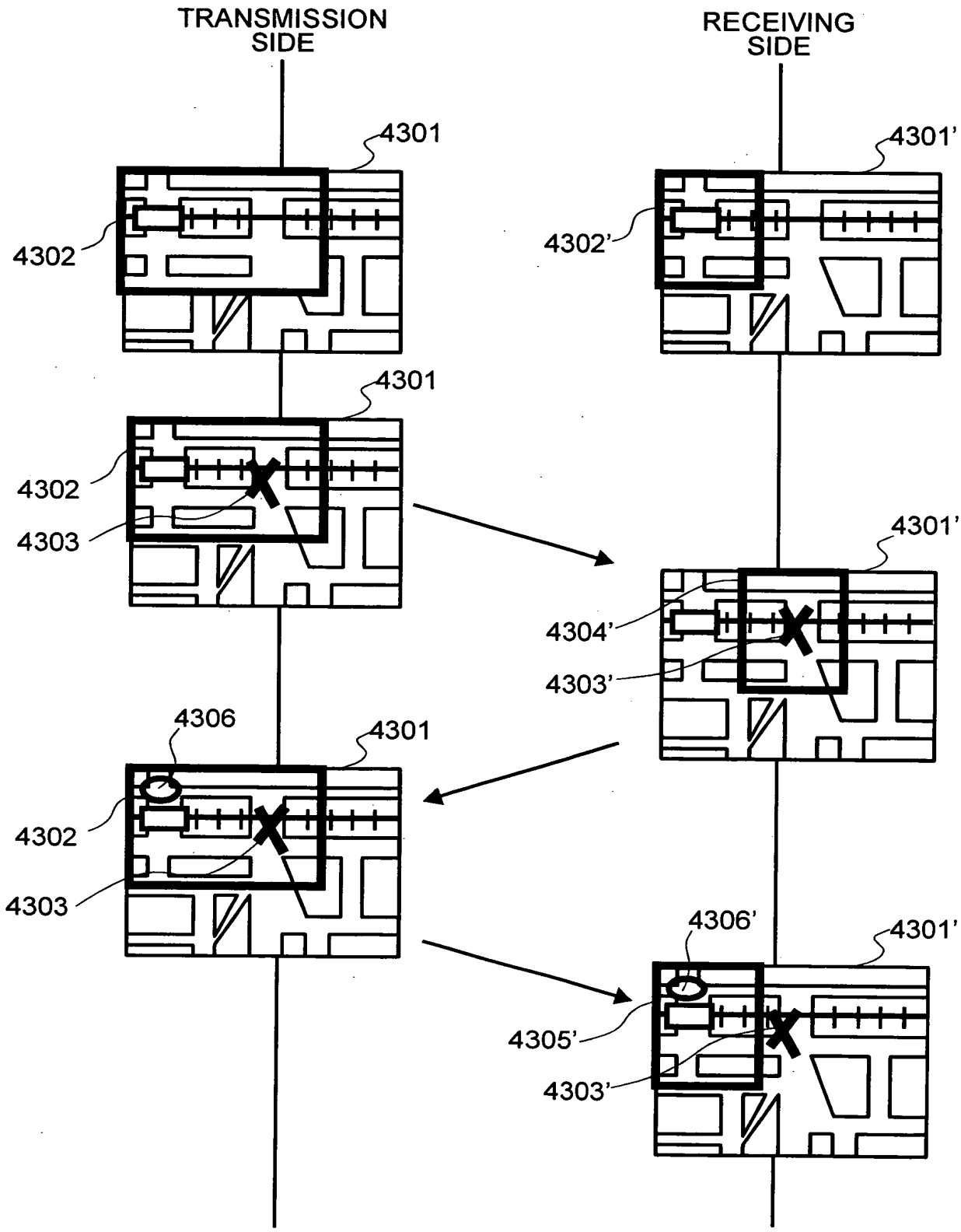

TRANSMISSION SIDE
RECEIVING SIDE
4301
4302
4303
4304'
4305'
4306
4306'
4301'
4302'
4303'

FIG.25

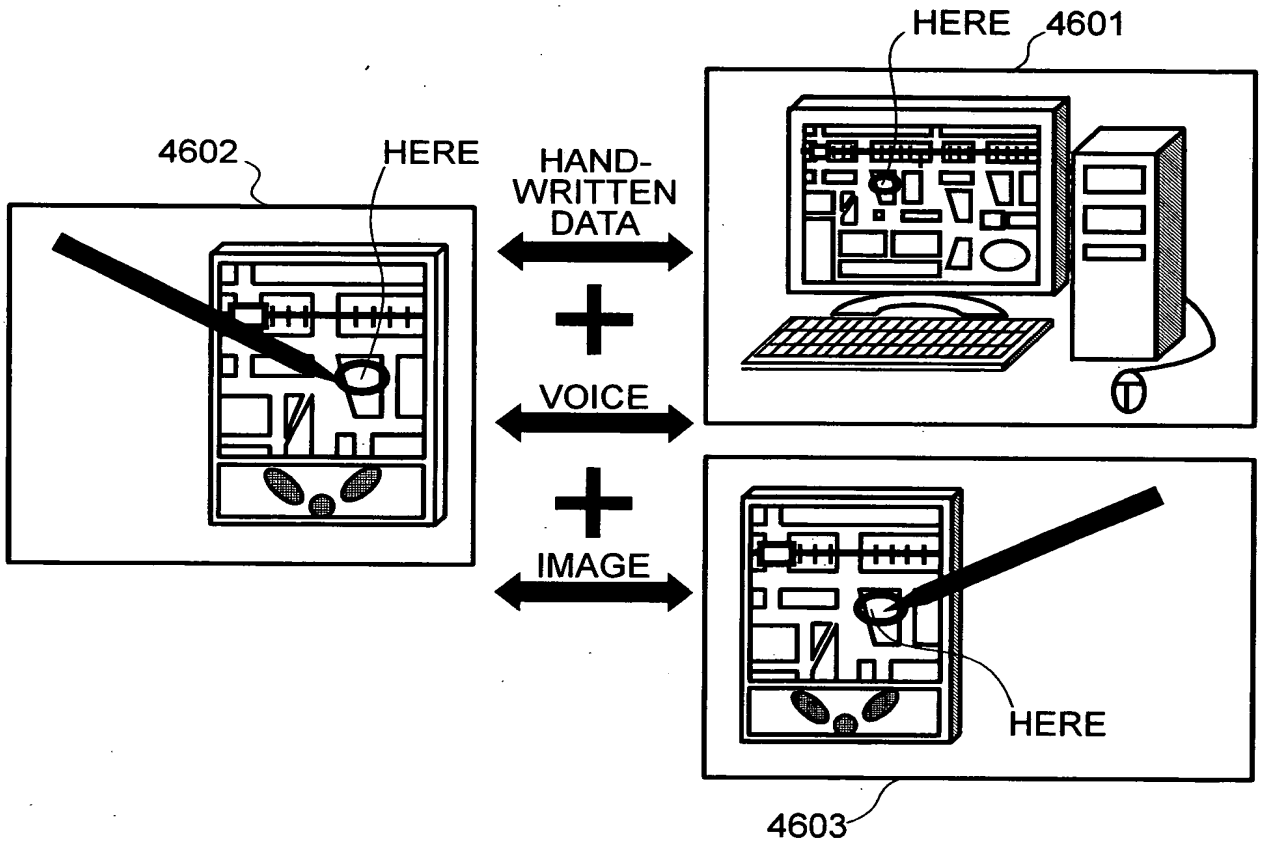
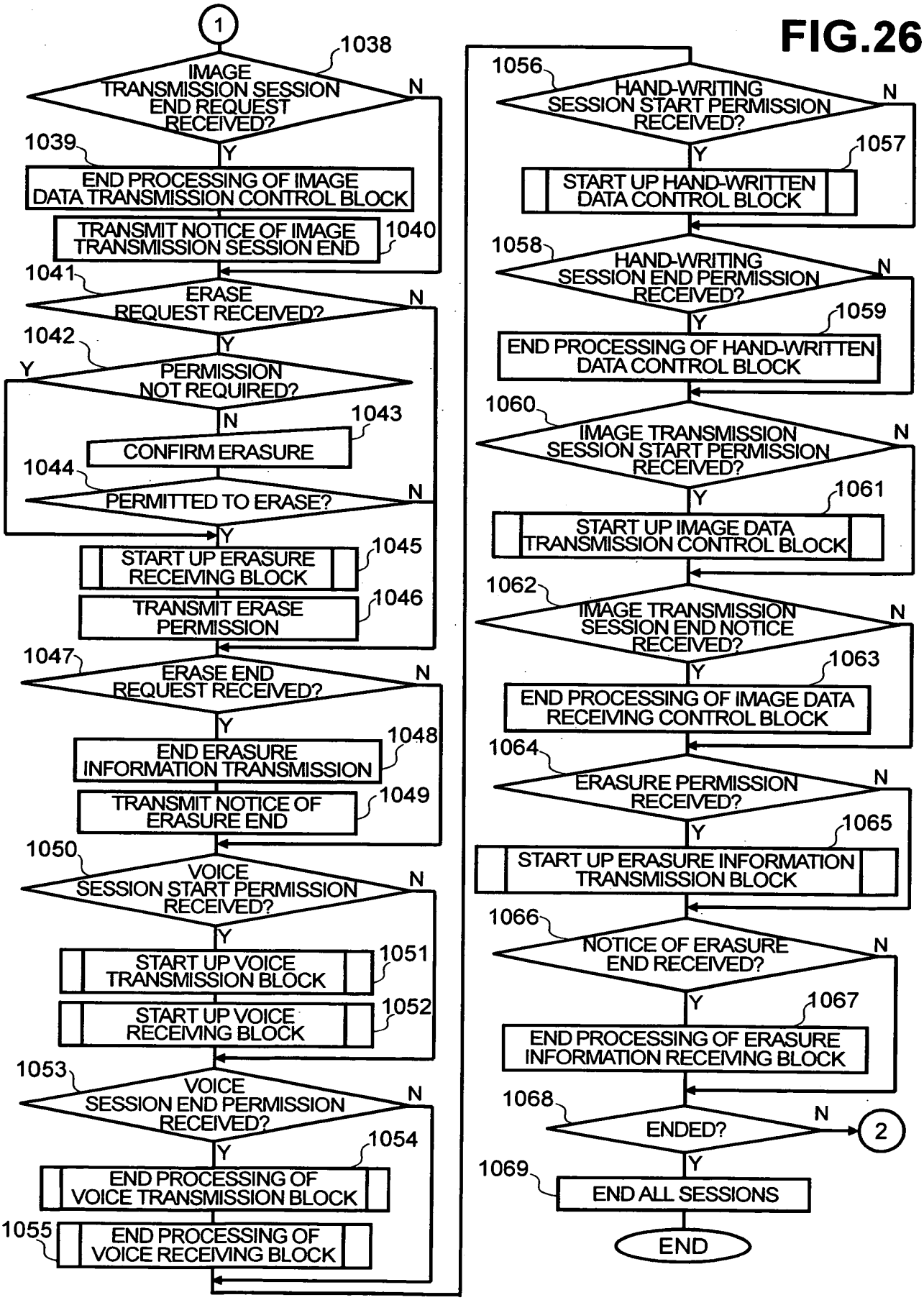


FIG.26


1
1038
IMAGE TRANSMISSION SESSION END REQUEST RECEIVED?
N
Y
1039
END PROCESSING OF IMAGE DATA TRANSMISSION CONTROL BLOCK
TRANSMIT NOTICE OF IMAGE TRANSMISSION SESSION END
1040
1041
ERASE REQUEST RECEIVED?
N
Y
1042
PERMISSION NOT REQUIRED?
Y
N
1043
CONFIRM ERASURE
1044
PERMITTED TO ERASE?
N
Y
START UP ERASURE RECEIVING BLOCK
1045
TRANSMIT ERASE PERMISSION
1046
1047
ERASE END REQUEST RECEIVED?
N
Y
END ERASURE INFORMATION TRANSMISSION
1048
TRANSMIT NOTICE OF ERASURE END
1049
1050
VOICE SESSION START PERMISSION RECEIVED?
N
Y
START UP VOICE TRANSMISSION BLOCK
1051
START UP VOICE RECEIVING BLOCK
1052
1053
VOICE SESSION END PERMISSION RECEIVED?
N
Y
1054
END PROCESSING OF VOICE TRANSMISSION BLOCK
1055
END PROCESSING OF VOICE RECEIVING BLOCK
1056
HAND-WRITING SESSION START PERMISSION RECEIVED?
N
Y
1057
START UP HAND-WRITTEN DATA CONTROL BLOCK
1058
HAND-WRITING SESSION END PERMISSION RECEIVED?
N
Y
1059
END PROCESSING OF HAND-WRITTEN DATA CONTROL BLOCK
1060
IMAGE TRANSMISSION SESSION START PERMISSION RECEIVED?
N
Y
1061
START UP IMAGE DATA TRANSMISSION CONTROL BLOCK
1062
IMAGE TRANSMISSION SESSION END NOTICE RECEIVED?
N
Y
1063
END PROCESSING OF IMAGE DATA RECEIVING CONTROL BLOCK
1064
ERASURE PERMISSION RECEIVED?
N
Y
1065
START UP ERASURE INFORMATION TRANSMISSION BLOCK
1066
NOTICE OF ERASURE END RECEIVED?
N
Y
1067
END PROCESSING OF ERASURE INFORMATION RECEIVING BLOCK
1068
ENDED?
N
2
Y
1069
END ALL SESSIONS
END